

Curriculum Vitae

Mandeep Kaur
Research Scholar
Department of Physics
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Objective: To work with trustworthiness, commitment and make use of my skills in the best interests of the organization and to excel in the given field through diligent work.

Personal Information:

Father's Name : Lakhwinder Singh
Date of Birth : 22-09-1987
Marital Status : Unmarried
Nationality : Indian
Languages Known : English, Hindi, and Punjabi

Academic Qualifications and Scientific achievements:

Qualification	School/ College	Board/ Univ.	Year	% of marks	Subjects
Ph.D. (Pursuing)	S.G.G.S.W.U Fatehgarh Sahib	S.G.G.S.W.U Fatehgarh Sahib	2013-	—	Theoretical Nuclear physics
M.Sc. (Physics)	Khalsa college, Amritsar	G.N.D.U. Amritsar	2009- 2011	68.8	CMP, ED, QM, Statistical, Electronics, etc.
B.Sc.	Mohindra college, Patiala	Punjabi University Patiala	2006- 2009	57.53	Physics, Chemistry, Math, Punjabi, English
+2 (Non-Medical)	G.G.Sr.Sec.School Rajpura	P.S.E.B. Mohali	2006	62.22	Physics, Chemistry, Math, Punjabi, English
Matric	G.G.Sr.Sec.School Rajpura	P.S.E.B. Mohali	2004	77.7	Math, Punjabi English, Science, S.St, Hindi

Research Project: Junior research fellow at Thapar university, Patiala in Major research Project of Department of Science at Technology.

Duration: September 2014 – August 2015

Publications

International journals

1. *Decay analysis of compound nuclei with masses $A \sim 30-200$ formed in the reactions involving loosely bound projectiles* **Mandeep Kaur**, BirBikram Singh, Manoj K. Sharma, Raj K. Gupta **Phys. Rev. C** 92, 024623 (2015).
2. *Dynamical cluster decay model applied to very light mass compound systems of mass $A \sim 30$ formed in heavy ion reactions* BirBikram Singh, **Mandeep Kaur**, Manoj K. Sharma and Raj K. Gupta, Journal of Physics: Conference Series **569**, 012030 (2014).
3. *Dynamical decay of $^{32}S^*$ and $^{31}P^*$ formed in $^{20}Ne+^{12}C$ and $^{19}F+^{12}C$ reactions, respectively, at $E_{CN} = 60$ MeV* BirBikram Singh, **Mandeep Kaur**, Manoj K. Sharma and Raj K. Gupta, EPJ Web of Conferences 86, 00049 (2014).
- 4.

Conference Proceedings

1. “*Role of angular momentum in the decay of very light compound nuclei formed in heavy ion collision*” at National Symposium on Emerging trends in physics for ionizing radiations, aerosols & material science organized by Department of Physics, Punjabi University, Patiala, Dec 13-14, 2013.
2. “*Angular momentum effects in the decay of compound system $^{32}S^*$ formed in $^{20}Ne+^{12}C$ reaction*” at National Conference On Emerging Horizons Of Science And Technology at Sri Guru Granth Sahib World University, Fatehgarh Sahib, Jan 17-18, 2014

3. "Signatures of competing reaction mechanisms for the decay of $^{32}\text{S}^*$ in $^{20}\text{Ne}+^{12}\text{C}$. at symposium on 75 years of Nuclear Fission by BARC Mumbai, May 8-10, 2014.
4. *Fusion-fission cross section of the compound system $^{34}\text{Cl}^*$ formed in the reaction using loosely bound projectile $^7\text{Be} + ^{27}\text{Al}$ at $E = 17 \text{ MeV}$ at National Physics conference Khalsa college Patiala Oct.30, 2014.*
5. *Fusion-Fission and deep inelastic orbiting in the target-like yields from $^{32}\text{S}^*$ formed in $^{20}\text{Ne}+^{12}\text{C}$ reaction at different excitation energies* BirBikram Singh, **Mandeep Kaur**, Manoj K. Sharma and Raj K. Gupta , Proceedings of the DAE Symp. on Nucl. Phys. 59 346 (2014)..
6. *Proton evaporation yields of $^{65}\text{Ge}^*$ formed in $^7\text{Be} + ^{58}\text{Ni}$ reaction at near and sub-barrier energies* **Mandeep Kaur**, BirBikram Singh, Manoj K. Sharma Proceedings of the DAE Symp. on Nucl. Phys. 59, 616 (2014).
7. *Dynamics of the reaction involving loosely bound projectile* **Mandeep Kaur**, BirBikram Singh, Manoj K. Sharma communicated in Proceedings of ISSN journal.
8. *Effect of orientations in the decay of very light mass compound nucleus $^{28}\text{Al}^*$ formed in $^{18}\text{O}+^{10}\text{B}$ and $^{19}\text{F}+^9\text{Be}$ reactions* BirBikram Singh, **Mandeep Kaur**, Manoj K. Sharma, Raj K. Gupta communicated in Proceedings of ISSN journal.
9. *Significance of neck length parameter in ^{32}S induced fusion reactions* **Mandeep Kaur**, BirBikram Singh, and Manoj K. Sharma Proceedings of the DAE Symp. on Nucl. Phys. **60**, 590 (2015).
10. *Effect of loosely bound ^7Li projectile on the fusion cross section due to increasing target mass* **Mandeep Kaur**, BirBikram Singh, Manoj K. Sharma and Raj K. Gupta Proceedings of the DAE Symp. on Nucl. Phys. 60, 594 (2015).
11. *Comparative study of light particles emission cross sections in the decay of compound nuclei $^{26,27,28,29}\text{Al}^*$ at $E_{CN}^* \sim 44 \text{ MeV}$* **Mandeep Kaur**, BirBikram Singh, Manoj K. Sharma and Raj K. Gupta Proceedings of the DAE Symp. on Nucl. Phys. 60, 588 (2015).
12. *Effect of N/Z ratio in the decay of compound nuclei with $A=60$* BirBikram Singh, **Mandeep Kaur**, Proceedings of the DAE Symp. on Nucl. Phys. 60, 598 (2015).

Workshops, Conferences, Schools attended/ Paper Presentations at

1. National Symposium on Emerging trends in physics for ionizing radiations, aerosols & material science organized by Department of Physics, Punjabi University, Patiala, Dec 13-14, 2013.
2. National Workshop on radiochemistry & applications of radioisotopes conducted jointly by Department of Physics, K.U., Kurukshetra and IANCAS (Indian Association of Nuclear Chemists & Allied Scientists), Oct 23-27, 2014.
3. National Conference On Emerging Horizons Of Science And Technology at Sri Guru Granth Sahib World University, Fatehgarh Sahib, Jan 17-18, 2014.
4. Symposium on 75 years of Nuclear Fission by BARC Mumbai, May 8-10, 2014.
5. Summer school on “Nuclear fission and related phenomenon” by VECC, Kolkata, May 13-23, 2014.
6. National Physics conference Khalsa college Patiala Oct.30, 2014.
7. 59th National DAE Symposium conducted by Department of Atomic energy at Banaras Hindu University, Varanasi , Dec 8-11,2014.
8. National conference on current advances in physical sciences-CAPS 2015, Khalsa College Amritsar March 11, 2015.
9. 60th National DAE Symposium conducted by Department of Atomic energy at Sri Sathya Sai Institute of higher learning ,Prasanthi Nilayam Dec 7-11,2015.

Computer Knowledge: MS Word, MS Excel, Power Point, FORTRAN for scientific problems, Origin and Latex.

Teaching Experience: ~ 2year

- (a). Patel Memorial National College, Rajpura, Patiala (Punjab).
- (b) Thapar Polytechnic College, Patiala (Punjab).
- (c) Sri Guru Granth Sahib World University Fatehgarh Sahib

Hobbies: Reading, Listening music, watching movies.

Date: 14/09/2016

Place: Rajpura

(MANDEEP KAUR)